

08/25/2003

13:30

GENENCOR LEGAL → 17038729306

NO. 500 0001

PATENT

Docket No. GC525-2D1
SN 09/938,801

FAX COVER SHEET

☐ Urgent
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☐ Action Required
☐ Reply Requested
☐ For Your Info.

TO: Art Unit 1652

LOCATION: USPTO

Fax No.: (703) 872-9306 (Before Final Facsimile No.)

FROM: H. Thomas Anderton, Jr.

LOCATION: GENENCOR INTERNATIONAL, INC.
Legal Department
925 Page Mill Road
Palo Alto, CA 94304-1013
Tel: 650-846-7544
Fax: 650-845-6504

DATE: August 25, 2003

NUMBER OF PAGES TO FOLLOW: SENT BY: klg

Re: Serial No. 09/938,801, Attorney Docket No. GC525-2D1

Attachments: Response to Office Action (6 pages), and Petition for Extension of Time (2 pages) in duplicate.

The original of this facsimile will be sent to you via:

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Date: August 25, 2003

By:

Kay L. Gaviglio

PATENT

Docket No. GC525-2D1

Jones et al.

Group Art Unit: 1652

Serial No.: 09/938,801

Examiner: Hutson, Richard G.

Filed: August 24, 2001

For: **CHEMICALLY MODIFIED MUTANT
ENZYMES AND METHODS FOR
PRODUCING THEM, AND SCREENING
THEM FOR AMIDASE AND/OR
ESTERASE ACTIVITY**

RESPONSE

**Mail Stop – Amendment
Commissioner of Patents
P. O. Box 1450
Alexandria, VA 22313-1450**

Sir:

In response to the Office Action mailed February 25, 2003, please amend the above-captioned application as follows:

IN THE CLAIMS

1. (Currently Amended) A method for screening chemically modified mutant enzymes for amidase and/or esterase activity comprising:

modifying an enzyme thereby creating [providing] a chemically modified mutant enzyme
with one or more amino acid residues from an enzyme being replaced by cysteine residues,
wherein at least some of the cysteine residues are modified by replacing the thiol hydrogen in
the cysteine residues with a thiol side chain;

contacting the chemically modified mutant enzyme with a substrate for amidase and/or a substrate for an esterase; and

determining whether the chemically modified mutant enzyme exhibits amidase and/or esterase activity.